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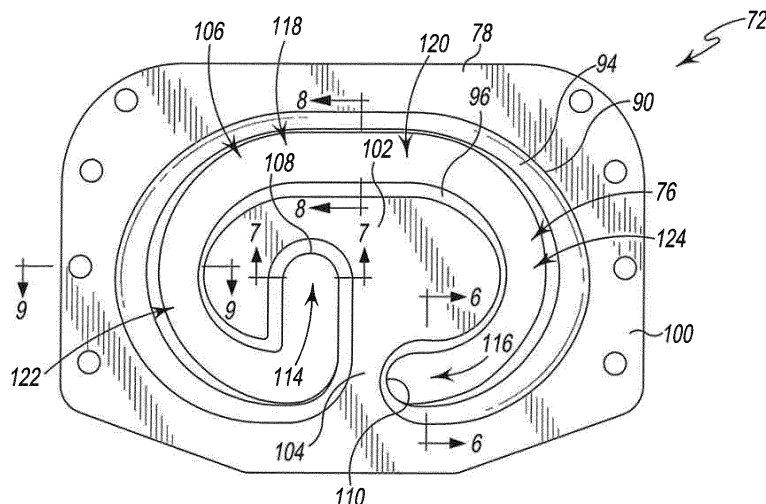
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(54) **ORTHOPAEDIC SURGICAL INSTRUMENT SYSTEM**

(57) An orthopaedic surgical instrument system (70) for use in preparing a patient's bone includes a cutting guide block (72) configured to be secured to a surgically-prepared surface of the patient's bone, and a cutting tool (74) to be used in conjunction with the cutting guide

block to resect a section of the patient's bone. The cutting block has a cutting guide slot (76) extending through its superior and inferior surfaces. The slot is shaped so that the pitch of the cutting tool is adjusted as the tool is moved along the slot.



**Fig. 3**



## EUROPEAN SEARCH REPORT

Application Number  
EP 16 17 6839

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	EP 2 181 672 A1 (DEPUY PRODUCTS INC [US]) 5 May 2010 (2010-05-05) * paragraphs [0064] - [0071]; figures 22-29 *	1-12	INV. A61B17/17 A61B17/16
A	EP 0 554 959 A1 (SQUIBB BRISTOL MYERS CO [US]) 11 August 1993 (1993-08-11) * column 2, line 26 - column 3, line 34; figures *	1	
A	US 2014/114320 A1 (KURTZ WILLIAM B [US]) 24 April 2014 (2014-04-24) * paragraphs [0054] - [0061]; figures 6A-7 *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			A61B
<p>3 <del>The present search report has been drawn up for all claims</del></p>			
Place of search <b>Munich</b>		Date of completion of the search <b>20 January 2017</b>	Examiner <b>Hagberg, Åsa</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/82 (P04C01)



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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-12

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 16 17 6839

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-12

An orthopaedic surgical instrument system comprising a cutting tool and a cutting guide block

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2. claims: 13-15

An orthopaedic surgical instrument system comprising a cutting tool having a pivotally coupled outer sleeve and a cutting guide block.

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 16 17 6839

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 2181672	A1	05-05-2010	AT 536150 T	15-12-2011
			AU 2009230732 A1	20-05-2010
			CN 101744675 A	23-06-2010
			EP 2181672 A1	05-05-2010
			EP 2181673 A1	05-05-2010
			EP 2422718 A1	29-02-2012
			JP 5591519 B2	17-09-2014
			JP 2010115487 A	27-05-2010
			US 2010114323 A1	06-05-2010
-----				
EP 0554959	A1	11-08-1993	AU 658466 B2	13-04-1995
			CA 2086799 A1	07-08-1993
			DE 69306821 D1	06-02-1997
			DE 69306821 T2	26-06-1997
			EP 0554959 A1	11-08-1993
			JP 3362063 B2	07-01-2003
			JP H05269140 A	19-10-1993
			US 5344423 A	06-09-1994
			US 5486180 A	23-01-1996
-----				
US 2014114320	A1	24-04-2014	US 2014114320 A1	24-04-2014
			US 2016374698 A1	29-12-2016
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